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SECURITY INFORMATION

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German Democratic Republic

FDD Abstract of [REDACTED]

PRODUCTION OF LUBRICANTS FOR PLASTIC BEARINGS AT LUETZKENDORF PETROLEUM PLANT (1 p; German;
[REDACTED] dated June 1952; date of info: same; [REDACTED])

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This photostated document is a report, dated 27 June 1952 (preparing agency unknown), on production of lubricants at Luetzkendorf Petroleum Plant, as follows:

The mounting of rotating shafts in plastic bearings, a method which is being used to an increasing extent, involves the problem of the production of suitable lubricants, particularly since the procurement of lubricants is known to be a bottleneck in the GDR. Experience has proved that the lubricants which have been used up to now for metal bearings are not suitable for plastic bearings for several reasons, including the following: 1) the operating temperature for plastic bearings is higher than that for metal bearings, requiring that part of the resultant heat be eliminated by the lubricant; this requirement cannot be met by the lubricants used up to now; 2) plastic bearings must be free of oil grooves and oil control rings (Oelabstreifkanten?). Bearing surfaces [REDACTED]

The Luetzkendorf Petroleum Plant was therefore directed to produce lubricants meeting the specifications for use with plastic bearings. Because of their water content, the emulsion lubricants have proved especially appropriate for the lubrication of plastic bearings for slow-moving machine parts. Thus, the production of these emulsion lubricants is to be doubled. It is stated that the viscosity specifications for the [REDACTED] lubricants are to be determined by the load to which the [REDACTED] plastic bearings are subjected. The Luetzkendorf Plant is also engaged in the production of a fatty water for lubricating plastic bearings, which prevents the pivots or shafts from rusting when the machine is not operating. Another product of the plant is a five-percent soluble oil, which is dissolved in partially distilled water, [REDACTED] (used for lubrication of plastic bearings)

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Foreign language document or microfilm of it ([REDACTED]) is available from CIA library,
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19 December 1952

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